



(From Pilot to Permanent Program)

July 10th, 2012

1:30pm- 3:00pm

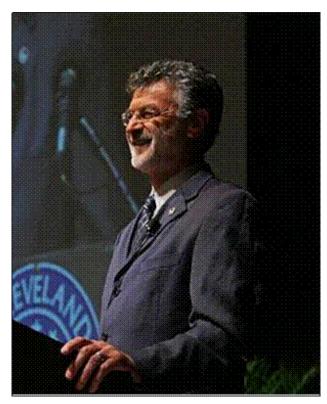
Residential Energy Efficiency Solutions Conference 2012





Office of Sustainability

- The Office launched in 2005; became part of Mayor's office in 2009
- Office goals:
 - Save the City of Cleveland money and reduce its ecological footprint
 - Use sustainability as a tool for economic development
 - Provide tools and resources to make sustainability business-as-usual within City departments, at home, and the workplace
 - Foster a culture that embraces
 sustainability action through education



Mayor Frank Jackson





- Pilot program aimed at reducing barriers to widespread adoption of residential energy efficient retrofits
 - Lack of Information
 - Access to Low-cost Capital
 - Comprehensive Audit-Retrofit Program
- Funded through Cleveland's Energy Efficiency and Conservation Block Grant (EECBG)
 Program
 - A program of the American Recovery and Reinvestment Act of 2009 (ARRA)

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Energy Efficiency and Conservation Block Grant Program (EECBG)
In 2009, the City of Cleveland received \$4.5M to fund 11 project
activities (14 distinct projects) related to energy efficiency and resource
conservation

Public Buildings:

Lighting Retrofits; HVAC Upgrades/Radiant heating Utility Data Management System Solar-Thermal DHW Installation

City Operations:

LED Streetlights Pilot Recycling Projects Deconstruction Projects Climate Action Plan

Community Oriented Projects:

Energy Auditing Services:
Commercial/Industrial Customers
Energy \$aver Program: Residential
Retrofit Pilot Project
Downtown Bike Station and Bike Trails
(Fuel Conservation)
Sustainability Plan (SC 2019 Action
Resources Guide)



Cleveland Energy\$aver Program is one of several residential home improvement programs/policies in the City and region:

- Green Building Tax Abatement
- Home Weatherization Assistance Program (HWAP)
 - Warm & Healthy Homes
- Utility-Based Programs
 - House Warming
 - Good Cents Programs
- Model Green Blocks









- Program is primarily targeted to single-family households in the City of Cleveland with an annual income at 200% or more of the federal poverty standard
 - Residents that do not qualify for HWAP or other lowincome weatherization programs
- Goal is to retrofit 100 homes within the pilot timeframe



Program Partners:

- City of Cleveland Mayor's Office of Sustainability
- City of Cleveland Department of Community Development
- Cleveland Action to Support Housing (CASH)
- Cleveland Housing Network (CHN)
- Dominion East Ohio
- City of Cleveland Mayor's Office of Communications
- Clean Energy Solutions, Inc. (CESI) & CADMUS Group (DOE Technical Assistance Partners)

Cleveland



Program Overview: (from a resident's perspective)

- Energy Assessment
 Interested Residents contact
 CE\$ team to sign up for their initial energy audit
 - Up front cost to homeowners is \$50 (over \$300 in savings)
 - \$50 audit fee will be reimbursed if resident moves forward with retrofits









2) Energy Audit Report

Residents receive a detailed energy assessment highlighting the areas in their home with the greatest potential for energy savings

Report includes:

- Energy efficiency upgrade measures to reduce energy consumption/loss
- EECBG and utility rebates
- Estimated ROI for each EE measure



3) Bid Retrofit Work

Residents can obtain quotes from a list of CE\$ approved contractors

- Biggest constraint in program process
- CE\$ team is working to improve the turnaround time from energy audit to retrofit
 - Includes opportunity tracking/follow ups
 - Automated scheduling tool for contractors





4) <u>Schedule/Perform Retrofit</u> Work

Examples of upgrades include*:

- Air Sealing
- Insulation
- Furnace Replacement
- New Windows/Doors

*Some restrictions on what work can be performed under the EECBG program



5) Incentive/Rebate Processing

CE\$ team works with residents to process rebates and incentives for energy audits (refunding their initial \$50) and retrofit work







CLEVELAND ACTION TO SUPPORT HOUSING

Program Financing

Low-interest financing is available for qualified residents interested in moving forward with retrofits

- Loans processed through CASH, Inc. and their lending partners
- 2.3% interest rate

Three types of residents:

- Self financed
- Tier One
- Tier Two



Program Financing

2.3% Fixed Interest Rate (for Tier One or Tier Two borrowers)

Minimum Loan Amount: \$3,000

Maximum Loan Amount: \$12,000

Estimated Average Loan Size: \$6,500

Loan Term: Up to 12 years

Tier One Borrowers:

- Loans issued through CASH's lending partners
 Huntington Bank, Dollar Bank and Key Bank
- Residents meet the qualifications for CASH's lending partners:
 680+ FICO score



Program Financing

Tier Two Borrowers:

- Residents that do not qualify for Tier One loans, may be eligible for Tier Two loans
- Loans issued and managed through CASH, Inc.
- Expanded Underwriting Criteria:

FICO score below 680 (640 minimum)

45% maximum Debt-to-Income ratio

110% maximum Loan-to-Value ratio

Loans are backed by a \$100,000 Loan Loss Reserve (LLR)

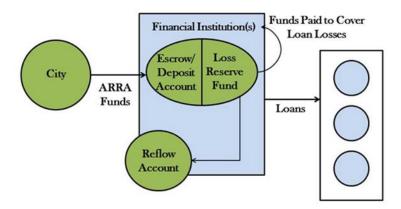


Loan Loss Reserve:

(for Tier Two Loans)

- Funded through the EECBG Program
- Includes Escrow, Reserve and Reflow Accounts managed by CASH, Inc.
- LLR is initially equal to 50% of the potential loan pool
 - \$100,000 to support a loan pool of \$200,000
 - Could support approximately
 30 Tier Two loans
 (avg. size \$6,500)

Loan Loss Reserve Fund - Structure





Loan Loss Reserve:

- Because the LLR is funded through the EECBG program, retrofit work financed by Tier Two loans is limited to eligible activities under the EECBG program
- Project teams refer to our DOE/EECBG scope, EECBG Historic Preservation
 Programmatic Agreement and NEPA approved scope of work
- If necessary, funds can be allocated from the LLR to support additional marketing efforts, rebates/incentives and loan processing costs



Program Successes to Date*:

Audits Performed: 96 (20 more scheduled)

Retrofits Completed: 6 (4 in progress)

Total Cost of Completed Retrofit Work: \$44,370

Total Value of Rebates/Incentives: \$14,336 (\$8,874 EECBG funded)

Tier One Loans Issued: 8

Tier Two Loans Issued: 1

Total Value of Loans Issued: \$75,729



^{*}As of July 6th, 2012



Program Successes to Date:

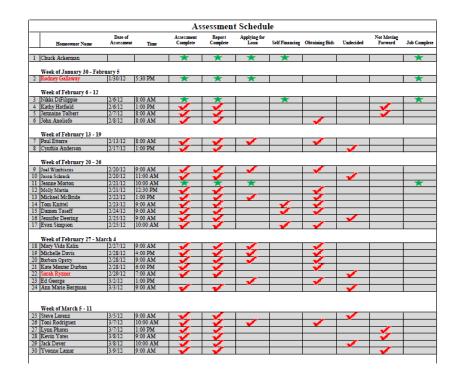
Improved program process to decrease the time from audit to retrofit

- Better tracking of resident status and opportunities
- Improved scheduling with contractors through the IRATE system

Utility rebates offer increased savings

Trained and certified program contractors

Three new positions created within CHN for CE\$





Program Opportunities:

- Low-cost energy audits to identify priority areas for upgrades
- Guidance from CE\$ team to help make upgrade selections
- Significant discounts for residents for retrofit work (up to 40%)
- Relationships with CASH, Inc. and their lending partners (lowinterest financing options)
- Good data generated from the program beyond the basic impact metrics
 - Includes loan information and resident utility data after the upgrade work



Program Challenges:

- Program Design and Contracting
 - Some challenges getting the program off the ground
 - Assistance from DOE's TAP partners to help structure the program and LLR
- Improving Program Process
 - Decreasing the time from audit to retrofit
- Promotion/Improving Program Participation
 - Need to encourage more residents to sign up for audits to help reach program goals (100 retrofits)



Program Challenges Beyond the Pilot:

- Managing funds in the Loan Loss Reserve after the pilot
 - Waiting on guidance for how to manage/report on funds once the pilot program is complete
 - Recommendations from DOE's TAP partners suggest spending down these funds (rebates, incentives, marketing, etc.), rather than rolling them into another LLR or revolving fund
- Ongoing Funding
 - For program management as well as rebates and incentives
- Maintaining relationships with lending partners to continue offering lowinterest loans for the program
- Maintaining Program Participation into the future
 - Potentially open the program up to multi-family units, small businesses, etc.



Questions??



Thank You!

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www.clevelandEnergy\$aver.com www.city.cleveland.oh.us/sustainability www.cleveland2019.org

